**9.1 HW Parallel Lines and Perpendicular Lines on a Coordinate Plane Geometry**

**Directions: Find the slope of each line.**



1) 2) 3)

**Directions: Find the slope of the line that passes through the two points.**

4) (5, 8) & (–4, 1) 5) (6, –3) & (–1, –3) 6) (–2, 5) & (6, –11)

**Directions: Identify the slope that would create a line that is parallel to the given line.**

7) y = 3x – 4 8) y = $-\frac{5}{4}$ x + 1 9) y = 5



10) 11) 12)

**Directions: Identify the slope that would create a line that is perpendicular to the given line.**

13) y = 3x – 4 14) y = $-\frac{5}{4}$ x + 1 15) y = 5



16) 17) 18)

**Directions: Graph the line that is parallel or perpendicular to the given line and passes through the given point.**

19) $∥$ & passes through (0, –5) 20) $⊥$ & passes through (0, 2) 21) $∥$ & passes through (2, 3)



**Directions: State the slope(s) needed to complete each specified shape. Then, complete the shape.**

22) Rectangle MNOP 23) Parallelogram ABCD 24) Rhombus HIJK